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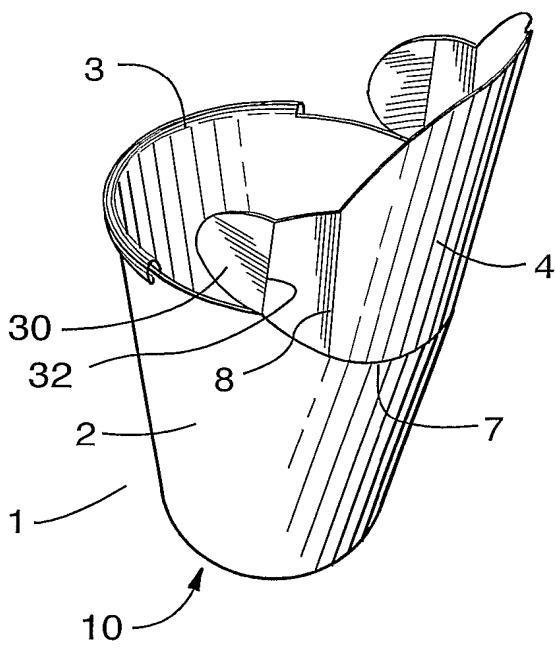
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(54) Title: DISPOSABLE CUP WITH FOLD-DOWN LID



(57) **Abstract:** The cup (1) has a lid portion (4) extending up from one side of the cup, configured to flip down into the body (2) of the cup, along a first score line (7), going from convex to concave, so as to close the otherwise open top of the cup. Flaps (30, 30') extend preferably from the lid portion near its lateral intersections with the cup body outwardly from the cup, or alternatively from the cup body in the same area, but inwardly. In either case, the flaps overlie what might otherwise be a small gap between the lid and the cup body in that area. This reduces any possibility for liquid to escape via that small gap. In the case of the flaps extending outwardly from the lid, the flaps also tend to act as stops against excessive downward rotation of the lid, and provide an easy way to lift the lid to open the cup, if desired. The cup preferably but not necessarily has two secondary fold lines (8) extending from the first score line to the outer edge of the lid portion, near opposite sides of the lid portion, which assists in holding the lid down once closed.

DISPOSABLE CUP WITH FOLD-DOWN LID

TECHNICAL FIELD

This invention relates to disposable cups, and in particular to improvements to disposable cups of the type having a lid portion extending upwardly from one side of a body portion of the cup, configured to flip into a closed position within the body of the cup. Such cups are described generally in the inventors' United States patent no. 6,176,420, granted on January 23, 2001, and corresponding Canadian patent no. 2,311,058, granted on January 8, 2002.

DISCLOSURE OF INVENTION

Various features of the cups described in the inventors' prior patents, referred to above, have been modified in order to improve the cups generally, and/or to adapt the cups to certain specific uses.

The lid portion of the cup flips down into the body of the cup, along a first score line, going from convex to concave, as described in detail in the inventors' prior patents. In the present invention, elements variously referred to as flaps or wings extend preferably from the lid portion near its lateral intersections with the cup body outwardly from the cup, or alternatively from the cup body in the same area, but inwardly. In either case, the flaps overlie what might otherwise be a small gap between the lid and the cup body in that area. This reduces any possibility for liquid to escape via that small gap, for example when the cup is accidentally squeezed or jostled excessively. In the case of the flaps extending outwardly from the lid, the flaps also tend to act as stops against excessive downward rotation of the lid, and provide an easy way to lift the lid to open the cup, if desired.

The cup preferably but not necessarily has two secondary fold lines extending from the first score line to the outer edge of the lid portion, near opposite sides of the lid portion, as in the inventors' prior patents. These secondary score lines encourage a slightly

more vertical orientation of the lid portion outside the secondary score lines, which assists in holding the lid down once closed, though the lid portion is shaped such that it snaps over into the closed position and tends to remain closed even without the secondary score lines.

BRIEF DESCRIPTION OF DRAWINGS

In order that the invention may be more clearly understood, the preferred embodiment thereof will now be described in detail by way of example, with reference to the accompanying drawings, in which:

Fig. 1 is a side perspective view of a preferred variation of the cup, with the lid open;

Fig. 2 is a rear perspective corresponding to Fig. 1, showing the flaps extended;

Fig. 3 is a view corresponding to Fig. 2, showing folding down of the flaps;

Fig. 4 is a side elevation view corresponding to Fig. 1;

Fig. 5 is a partial cross-section elevation view corresponding to Fig. 1;

Fig. 6 is a cross-section elevation view showing a flap folded over;

Fig. 7 is a side perspective view of a variation on the cup of Fig. 1, with no secondary score lines;

Fig. 8 is a rear perspective corresponding to Fig. 7, showing the flaps extended;

Fig. 9 is a view corresponding to Fig. 8, showing folding down of the flaps;

Fig. 10 is a side elevation view corresponding to Fig. 7;

Fig. 11 is a front perspective view of a variation similar to that of Fig. 1, showing larger flaps, and reduced height of the body of the cup where the lip is formed;

Fig. 12 is a rear perspective view corresponding to Fig. 11;

Fig. 13 is a rear perspective view similar to Fig. 12, showing the lid folded down;

Fig. 14 is a side elevation view of the Fig. 11 embodiment, with the lid portion up;

Fig. 15 is a side elevation view corresponding to Fig. 14, but with the lid portion closed;

Fig. 16 is a perspective view similar to Fig. 1, but showing flaps with a locking tab extension;

Fig. 17 is a top view of the Fig. 16 cup;

Fig. 18 is a side elevation view of the Fig. 16 cup;

Fig. 19 is a rear perspective view of a cup with the lid portion being a separate piece glued to the body of the cup;

Fig. 20 is an exploded perspective corresponding to Fig. 19;

Fig. 21 is a side cross-section of the Fig. 19 cup;

Fig. 22 is a perspective view showing a glued-on lid reinforcement;

Fig. 23 is a perspective view similar to Fig. 19, but only the upper part of the lid portion is a separate piece, instead of the whole lid portion;

Fig. 24 is an exploded perspective corresponding to Fig. 23;

Fig. 25 is a side perspective view of a cup where the flaps extend inwardly from the body of the cup, instead of outwardly from the lid portion;

Fig. 26 is a front perspective corresponding to Fig. 25;

Fig. 27 is a rear perspective of the Fig. 25 cup, showing the lid portion folded down;

Fig. 28 is a rear perspective corresponding to Fig. 27, showing the flaps folded down;

Fig. 29 is a top view of the Fig. 25 cup with the lid closed and flaps folded; and

Fig. 30 is a cross-section of the Fig. 25 cup with the lid closed and flaps folded;

BEST MODE FOR CARRYING OUT THE INVENTION

The cup **1** has a body portion **2**, a lid portion **4**, and a separately-formed bottom **10** (conventional, and therefore not specifically shown). The lid is foldable along a first score line **7**, to close the lid. In the preferred embodiment illustrated in Figs. 1-6, optional but preferable secondary score lines **8** assist in holding the lid down once closed, by encouraging a slightly more vertical orientation of the lid portion outside the secondary score lines, as can be seen clearly in Figs. 2 and 3, for example. However, the lid portion is shaped such that it snaps over into the closed position (concave instead of convex) and tends to remain closed even without the secondary score lines. Figs. 7-10 illustrate a version which does not have the secondary score lines.

In the “winged” embodiments, the curled paper which forms the lip **3** of the cup preferably has been removed for a short distance and is of similar length to the secondary score line **8** at the point where the secondary score line on the lid of the cup meets the upper edge of the cup body. This location can also be described as being

formed by that small area along the top edge of the lid where the primary score line **7** meets the top edge of the body of the cup. Removal of the curled paper at this point allows for an extension of the paper flap formed by the secondary score line past the upper edge of the lip of the cup, i.e. the flaps **30** referred to above. Where the flap meets the top edge of the body of the cup and extends beyond the cup body edge, an additional score line **32** can be provided, running along the edge of the flap parallel to the top edge of the lid. This allows the flaps to be folded downwardly.

The flaps serve several functions. Firstly, the fold formed by the secondary flap over the edge of the lid of the cup acts to hold the entire lid of the cup within the cup body. If pressure is applied to the lid in the act of closing the lid, the folded flap catches the edge of the cup body and acts to prevent the lid from moving further into the cup body beyond a certain point. The fold can be placed so that the cup lid goes to the desired position every time it is closed. When the lid is in the desired position inside the body of the cup, the fold prevent the lid from moving further down into the cup if the cup is squeezed with pressure side to side, for example if some users apply too much pressure to the lid of the cup upon insertion of the lid and so distort the lid within the body of the cup. Having the score line and fold at the top edge of the cup will act as a visual aid to prevent the lid from being pushed too far as the fold will catch the edge of the cup at precisely the position where the lid is designed to be within the body of the cup. This keeps the cup more rigid and stable in the hand of the user and helps to prevent spillage. The improved feel of a more rigid cup is also a positive attribute.

Secondly, the presence of the folded flap helps to prevent splashing of liquid inside the body of the cup when the cup is vigorously shaken side to side. Otherwise, there can be a small gap where the flap meets the edge of the cup body. If the cup is shaken in a particular direction, there is a tendency for drops of liquid to escape at the gap. The flaps tend to prevent such liquid from escaping.

Thirdly, the flaps can be grasped by fingers and by applying pressure in an upward motion, the lid of the cup can be pulled up to the open position. This facilitates adding

more liquid, or cream and sugar, for example, and provides the design with reuse potential.

The flap can be of any size, the size only being limited by the amount of paper available in the template and how those templates are cut. As such the flap can extend out from the body of the cup and be used for grasping, aesthetic appeal, and play interest. For a children's cup, for example, the flaps can be used as ears, eyes, antenna, etc. or for grasping to hold the cup or to remove the lid. As such the play value of the cup is considered to have additional merit.

Preferably, the flaps are folded from the inside over the top of the lid of the cup to the outside of the cup. However, as shown in Figs. 25-30, the flaps **30'** could be formed from the body of the cup and have the flap folded over where the lid of the cup meets the top of the body of the cup at the secondary score line.

Figs. 11-15 show a version in which the height of the cup is reduced, i.e. the lip **3** is lower than in the embodiments of Figs. 1-10. This can be best appreciated by comparing Fig. 4 with Fig. 14. Since one would not normally fill the cup higher than about the height of the score line **7** in any event, the capacity of the Figs. 11-15 cup is essentially the same as the cups of Figs. 1-10, but with potentially less paper being used, depending on the cutting patterns employed in the manufacturing process.

Figs. 16-18 show a variation in which the flaps **30** each include an extension **31**, the extensions acting as locking tabs by fitting under the edge of the lip **3**.

Other variations of the invention include a construction where the lid portion **4** is a separate piece from the body **2**, as shown in Figs. 19-21, having an overlap area **35** for gluing or otherwise bonding to the cup body, or where a part **36** of the lid portion is a separate piece, as shown in Figs. 23-24.

As shown in Fig. 22, separate pieces **40** may also be used to create a double layer of paper for reinforcement purposes, especially for example for the distal portion of the lid

portion, especially for hot beverages. Fig. 22 shows the reinforcement piece on the inside of the lid portion, but it could be on the outside of the lid portion if desired. Such reinforcement pieces may be applied to any of the embodiments referred to above, and to any of the embodiments referred to in the prior patent no. US 6,176,420.

Variations include:

- a. A semicircle of paper glued to the inside and outside of the lip of the cup near the edge of the mouth piece. In this instance there is two thicknesses of paper at the leading edge of the lid near the mouthpiece.
- b. A separate piece of paper with the glued at edge of approximately 1cm. In this instance two thickness of paper occur only at the glued edge and the leading edge of the cup at the mouthpiece is a single piece.
- c. The entire lid of the cup is glued on as a separate piece on the side of the body of the cup.

The functions of these variations are two-fold. Firstly, they will reduce paper usage during the manufacturing process, and secondly, will act to increase the rigidity of the cup when the lid is positioned within the body of the cup, i.e. in the closed position, especially for when the cup is squeezed.

INDUSTRIAL APPLICABILITY

The invention provides an improved disposable cup for beverages or other uses.

CLAIMS:

1. A disposable cup (1) having a body portion (2) and a lid portion (4), said lid portion extending upwardly from one side of said body portion of the cup when in an open position, and arranged to flip from convex to concave along an arcuate first score line (7) into a position within the body of the cup and across the otherwise open top of the cup when in a closed position, said lid portion having flaps (30) extending laterally outwardly from opposite sides thereof so as to overlie lateral edges of said body portion adjacent opposing areas where said lid portion meets said body portion.
2. A disposable cup as in claim 1, wherein said flaps have a score line (32) generally aligned with upper edges of said body portion when said lid portion is in said closed position, to facilitate folding said flaps downwardly along the body portion of the cup.
3. A disposable cup as in claim 1, wherein said lid portion has two secondary score lines (8) extending from the first score line to the outer edge of the lid portion, in a generally vertical direction when said lid portion is in the open position, near opposite sides of said lid portion.
4. A disposable cup as in claim 1, wherein said lid portion has reinforcement pieces (40) bonded thereto to provide a double layer and therefore added strength to at least portions thereof.
5. A disposable cup as in claim 1, wherein said body portion has an upper edge angling downwardly from opposite ends of said first score line away from said lid portion, to a horizontal lip portion (3) thereby providing said cup with a reduced height compared to a corresponding cup without said downward angling.
6. A disposable cup (1) having a body portion (2) and a lid portion (4), said lid portion being integral with or secured to said body portion to extend upwardly from one side of said body portion of the cup when in an open position, and arranged to flip from

convex to concave along an arcuate first score line (7) into a position within the body of the cup and across the otherwise open top of the cup when in a closed position, said cup body having flaps (30') extending laterally inwardly from each side thereof so as to overlie lateral edges of said body portion adjacent opposing areas where said lid portion meets said body portion.

7. A disposable cup as in claim 6, wherein said flaps have a score line to facilitate folding said flaps downwardly along the body portion of the cup.

8. A disposable cup as in claim 6, wherein said lid portion has two secondary score lines (8) extending from the first score line to the outer edge of the lid portion, in a generally vertical direction when said lid portion is in the open position, near opposite sides of said lid portion.

9. A disposable cup as in claim 6, wherein said lid portion has reinforcement pieces (40) bonded thereto to provide a double layer and therefore added strength to at least portions thereof.

10. A disposable cup as in claim 6, wherein said body portion has an upper edge angling downwardly from opposite ends of said first score line away from said lid portion, to a horizontal lip portion (3) thereby providing said cup with a reduced height compared to a corresponding cup without said downward angling.

11. A disposable cup (1) having a body portion (2) and a lid portion (4), said lid portion being integral with or secured to said body portion to extend upwardly from one side of said body portion of the cup when in an open position, and arranged to flip from convex to concave along an arcuate first score line (7) into a position within the body of the cup and across the otherwise open top of the cup when in a closed position, wherein said lid portion has reinforcement pieces (40) bonded thereto to provide a double layer and therefore added strength to at least portions thereof.

12. A disposable cup (1) having a body portion (2) and a lid portion (4), said lid portion being integral with or secured to said body portion to extend upwardly from one side of said body portion of the cup when in an open position, and to flip into a position within the body of the cup and across the otherwise open top of the cup when in a closed position, and at least one primary feature selected from the list comprising the following primary features:

a flap (30) extending outwardly from said lid portion so as to overlie lateral edges of said body portion adjacent opposing areas where said lid portion meets said body portion;

a flap (30') extending inwardly from said body portion so as to overlie lateral edges of said body portion adjacent opposing areas where said lid portion meets said body portion;

a flap (30) extending outwardly from said lid portion so as to overlie lateral edges of said cup adjacent opposing areas where said lid portion meets said body portion, the flap having an extension (31) to fit under an edge of the cup lip;

and at least one secondary feature selected from the list comprising the following secondary features:

the lid portion (4), or a portion thereof, being a separate piece from the cup body;

secondary score lines (8) extending from the first score line to the outer edge of the lid portion, in a generally vertical direction when said lid portion is in the open position, near opposite sides of said lid portion;

reinforcement pieces (40) glued or otherwise bonded to said lid portion; and

said body portion having an upper edge angling downwardly from opposite ends of said first score line away from said lid portion, to a horizontal lip portion (3) thereby having a reduced height.

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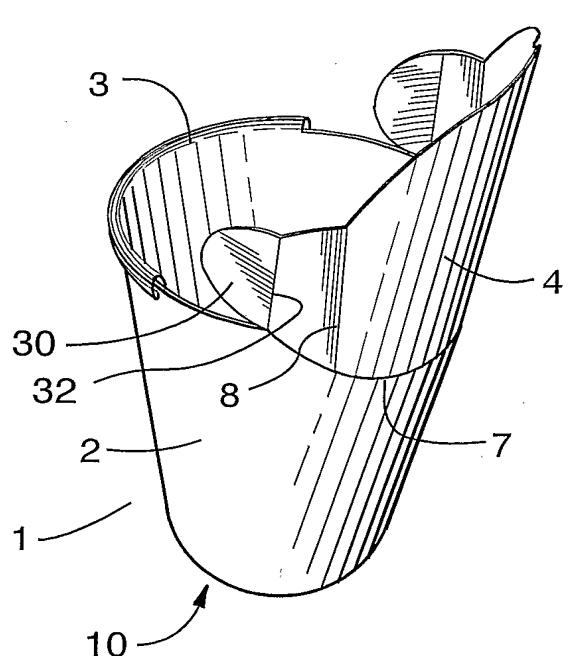


FIG.1

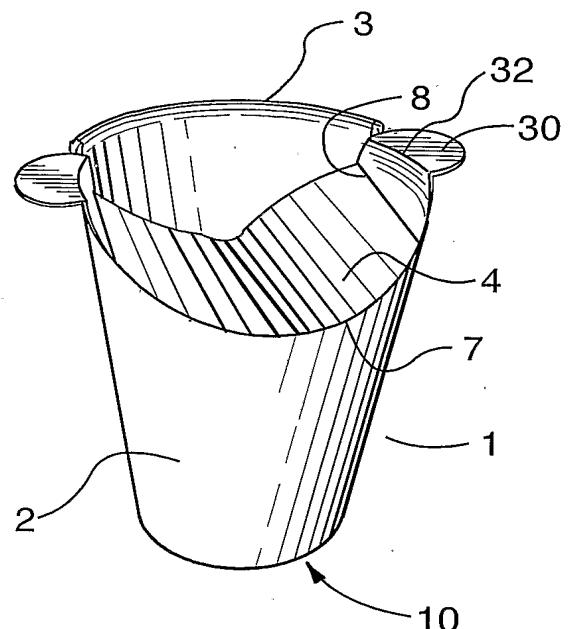


FIG.2

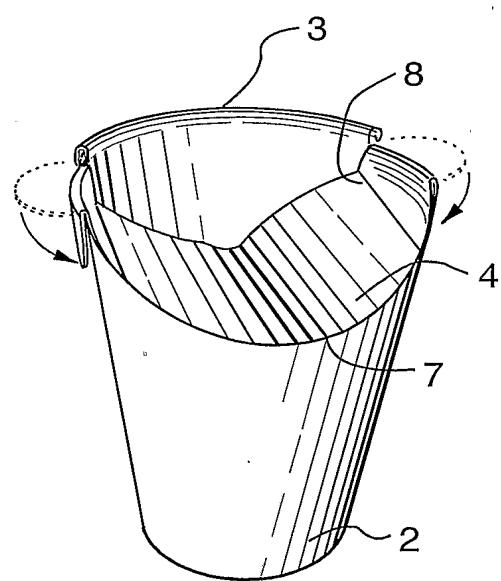


FIG.3

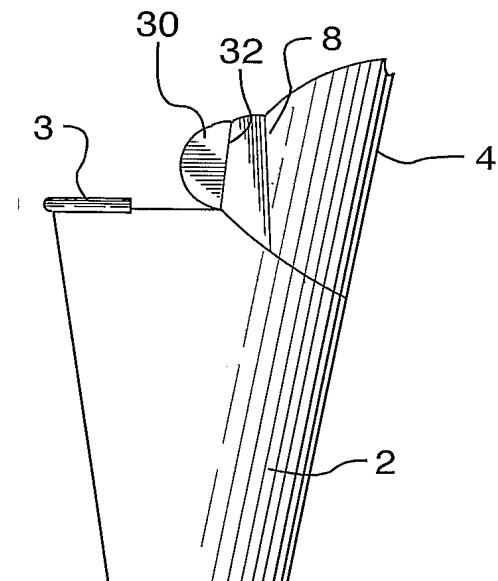
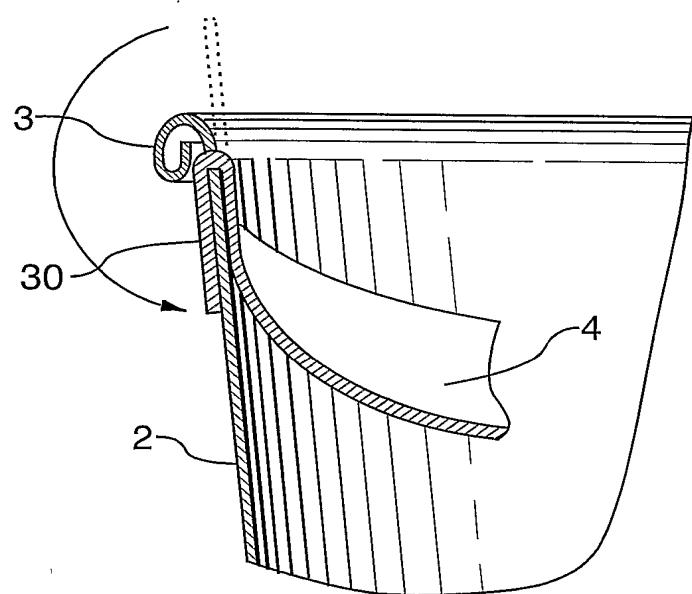
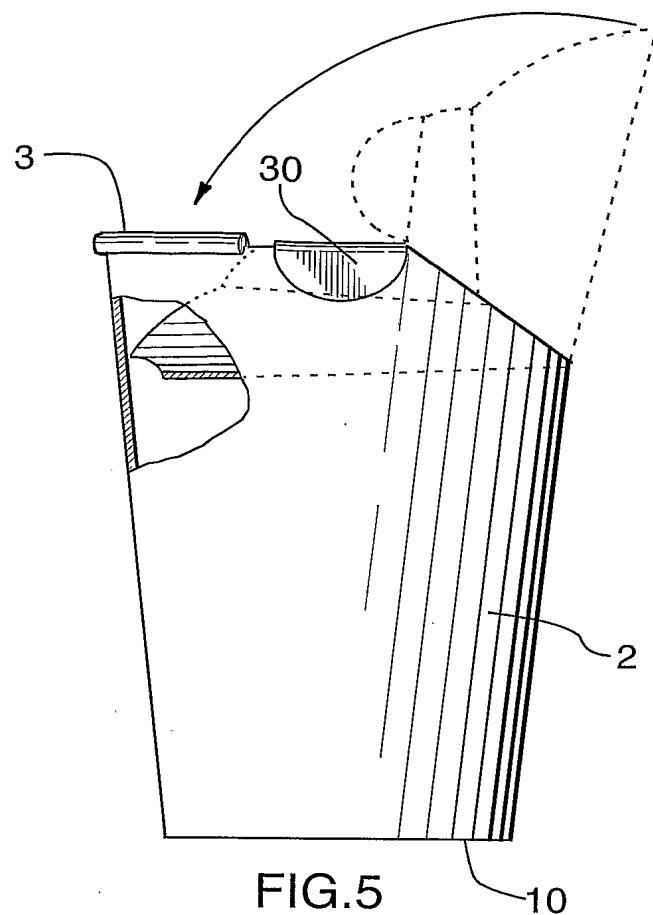


FIG.4

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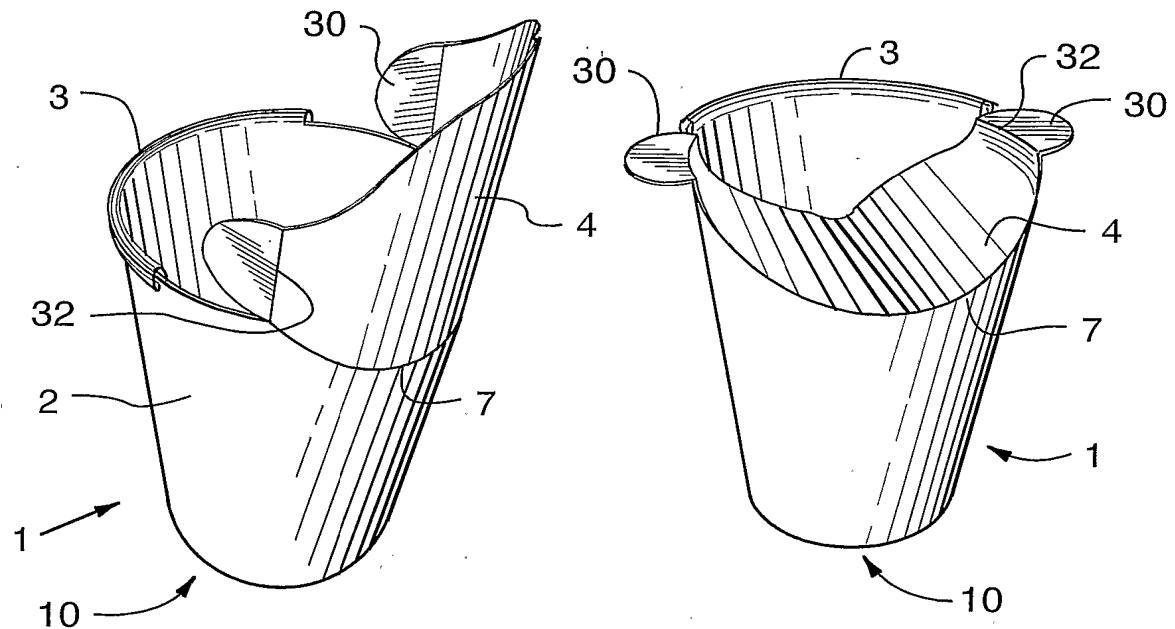
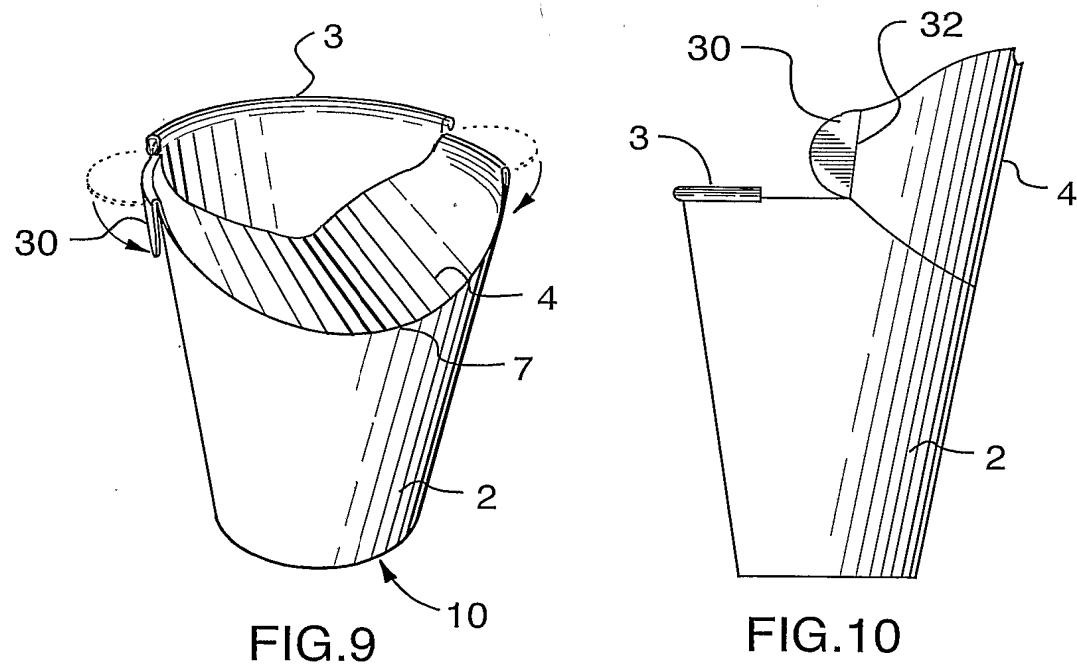


FIG.7

FIG.8



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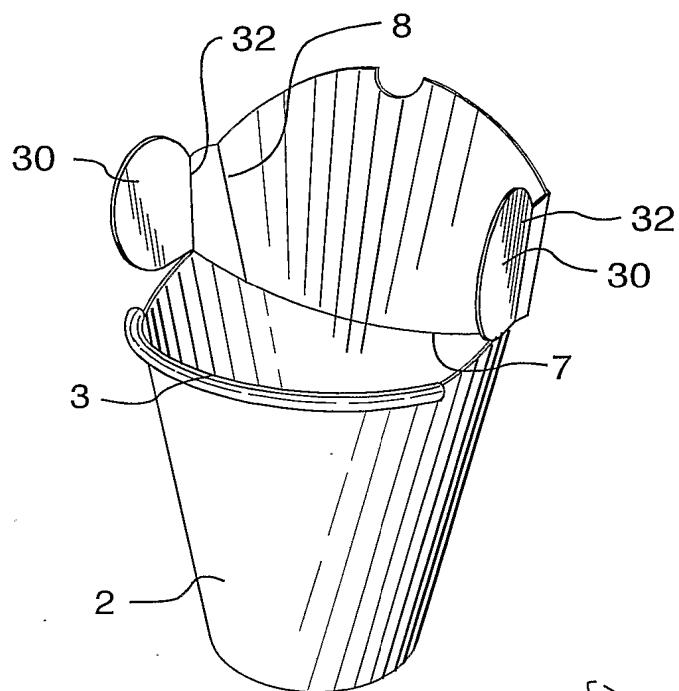


FIG.11

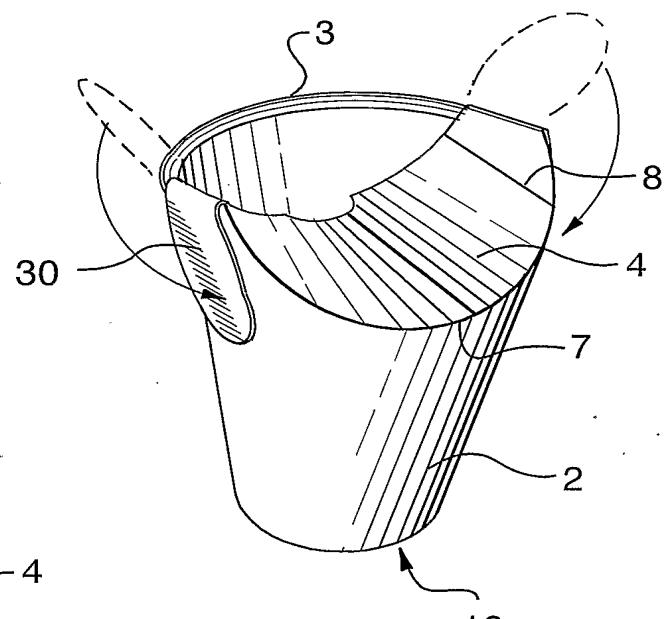


FIG.13

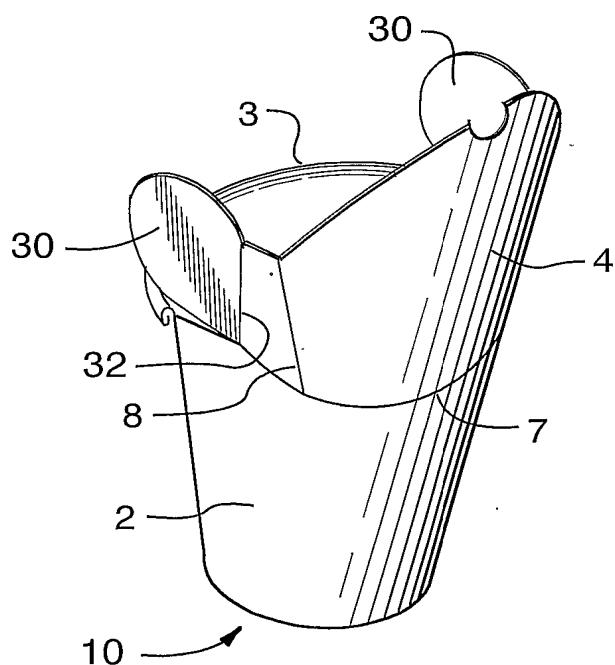


FIG.12

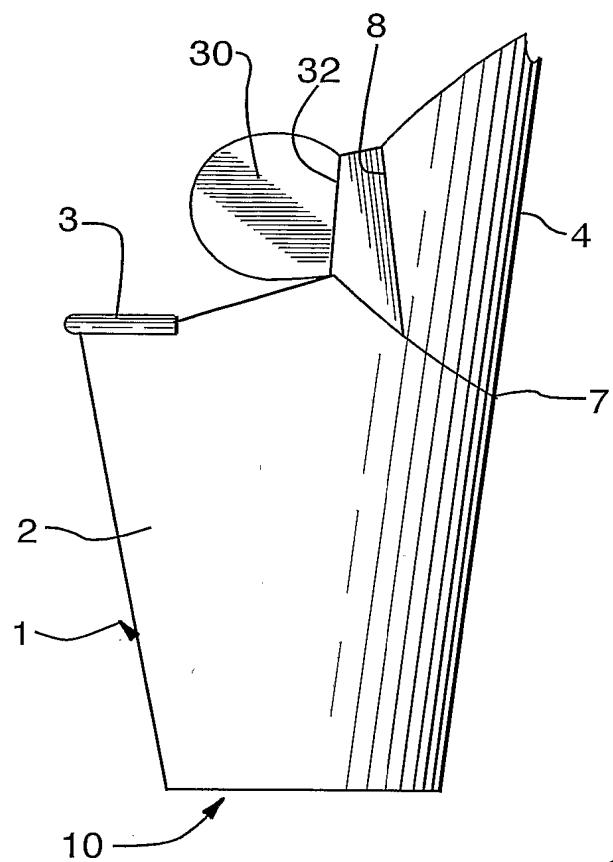


FIG. 14

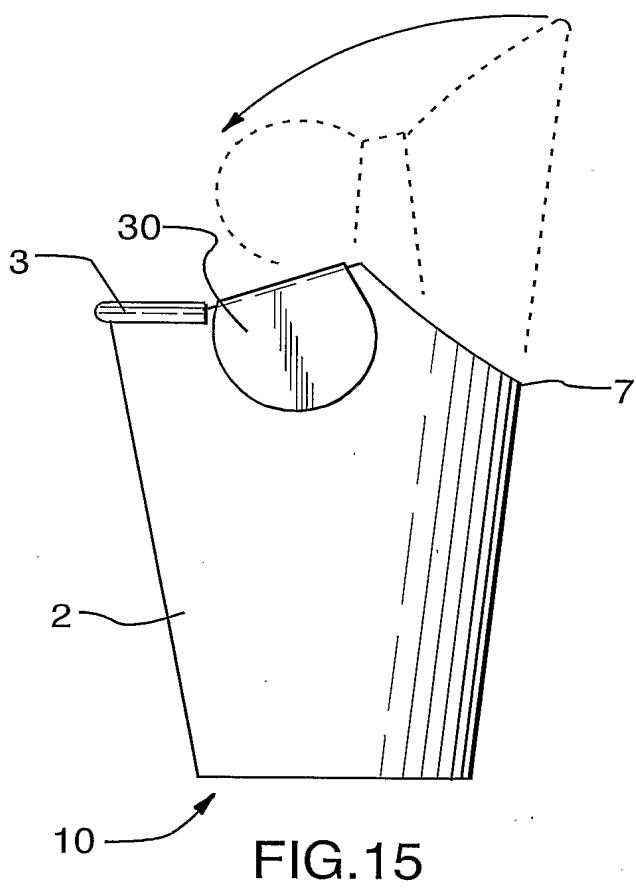


FIG. 15

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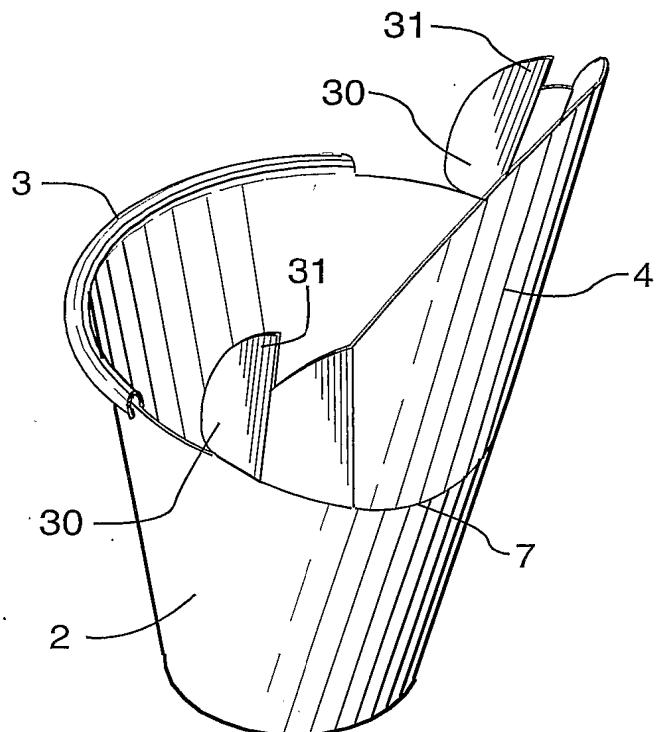


FIG.16

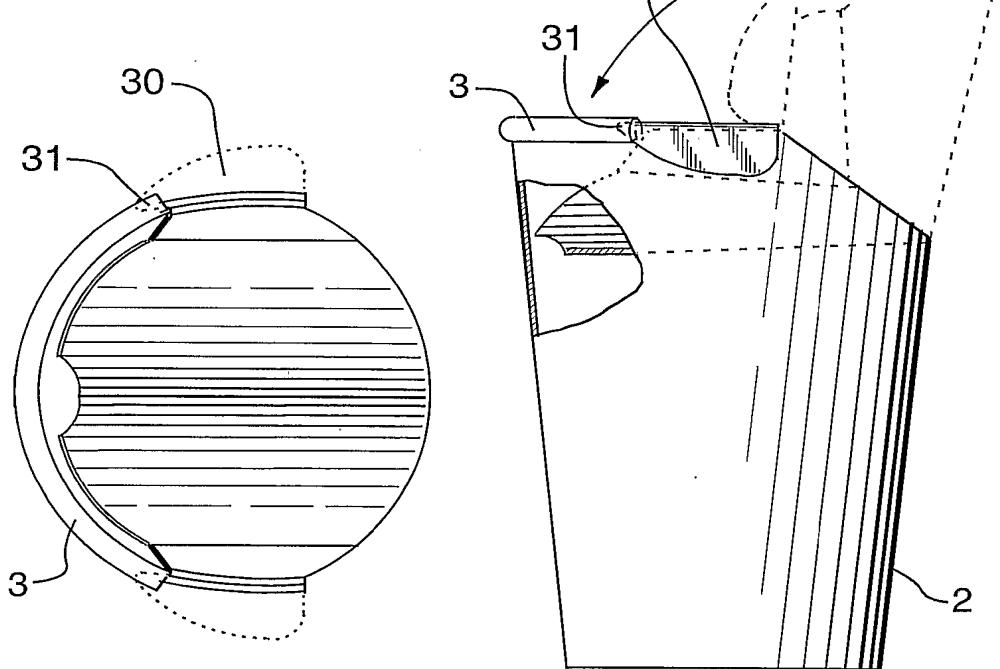


FIG.17

FIG.18

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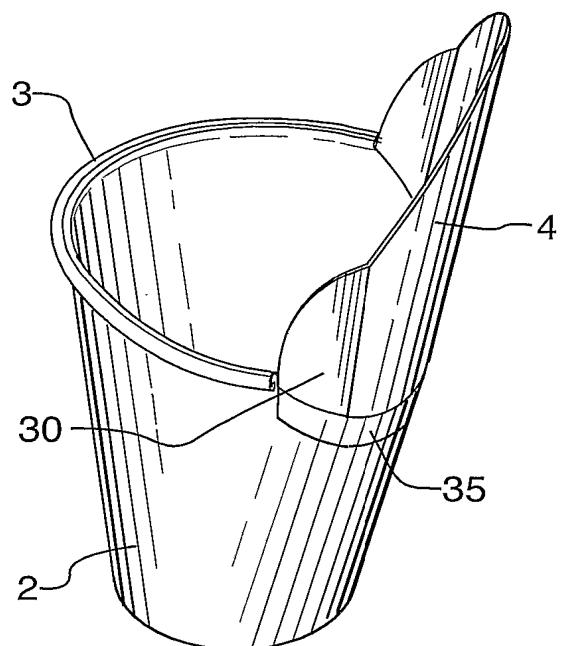


FIG. 19

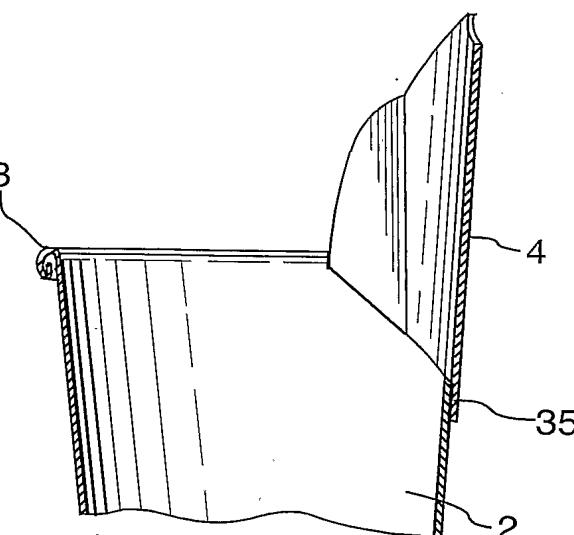


FIG. 21

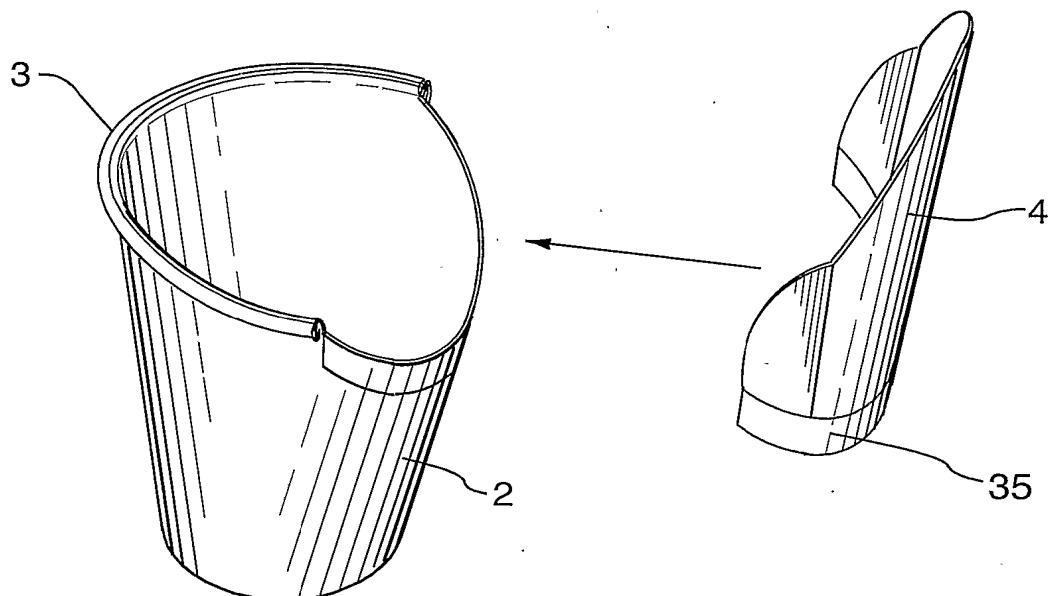


FIG. 20

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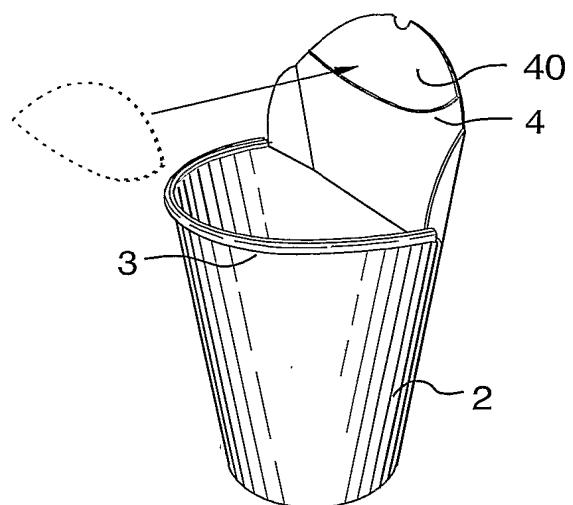


FIG.22

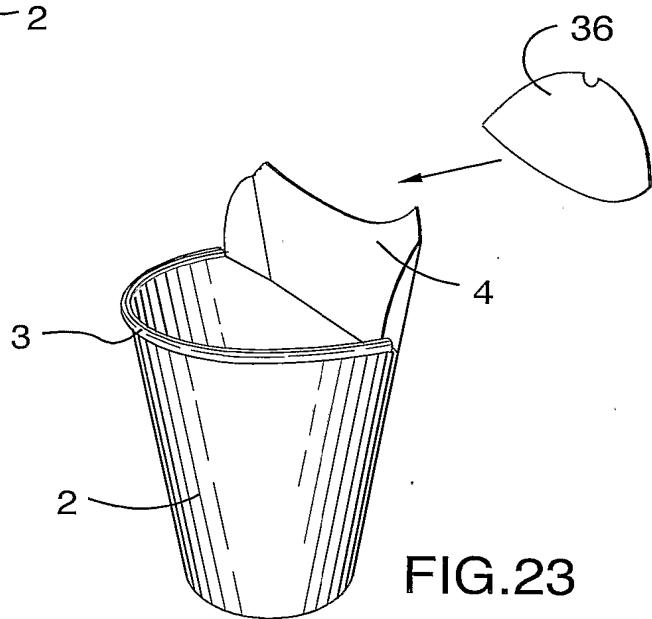


FIG.23

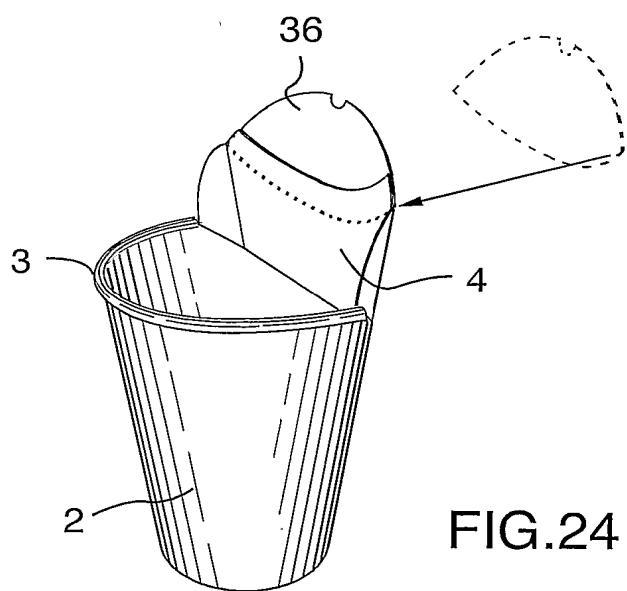


FIG.24

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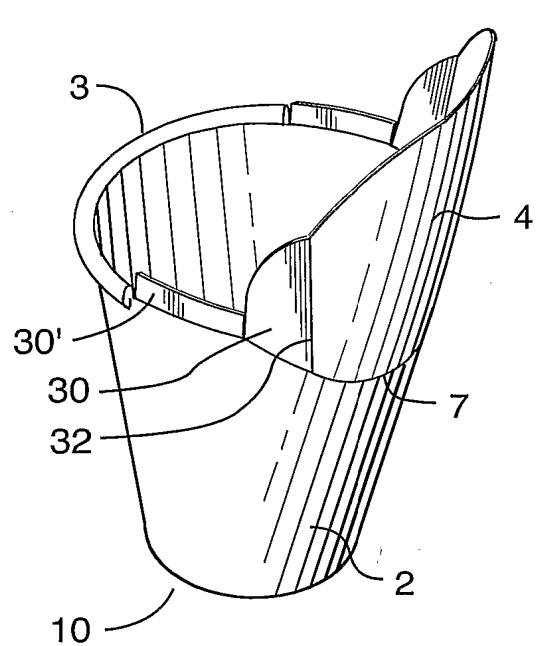


FIG.25

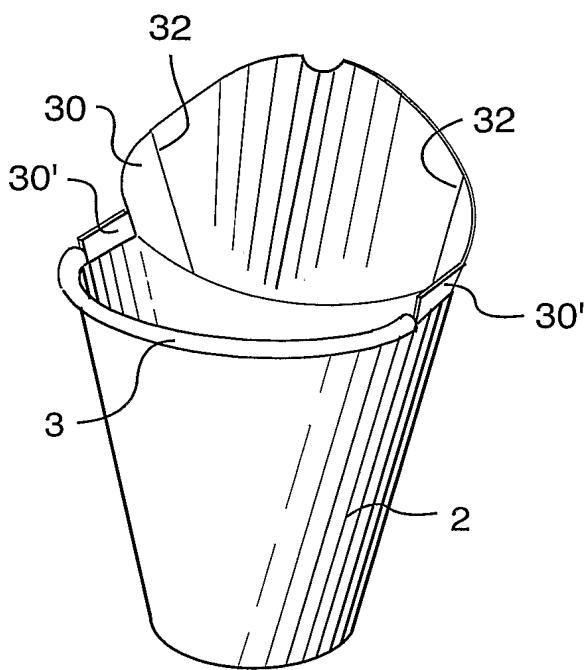


FIG.26

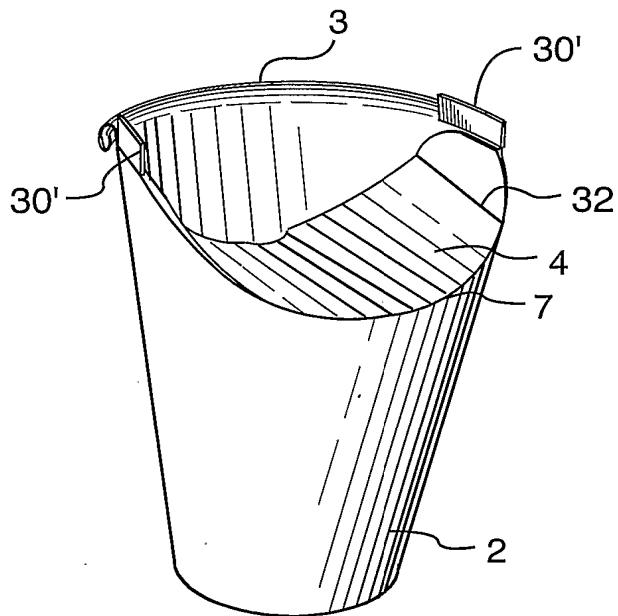


FIG.27

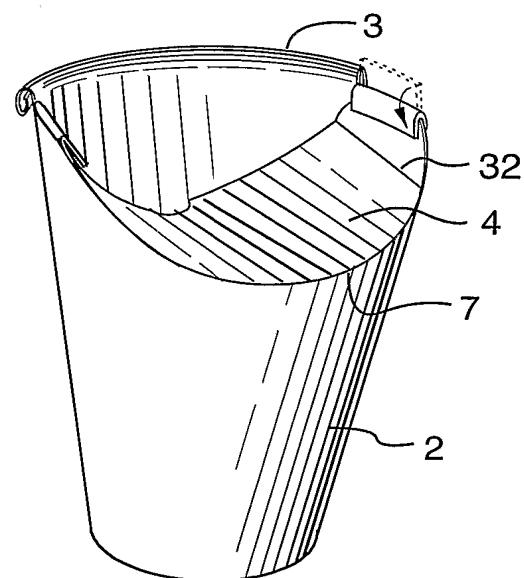


FIG.28

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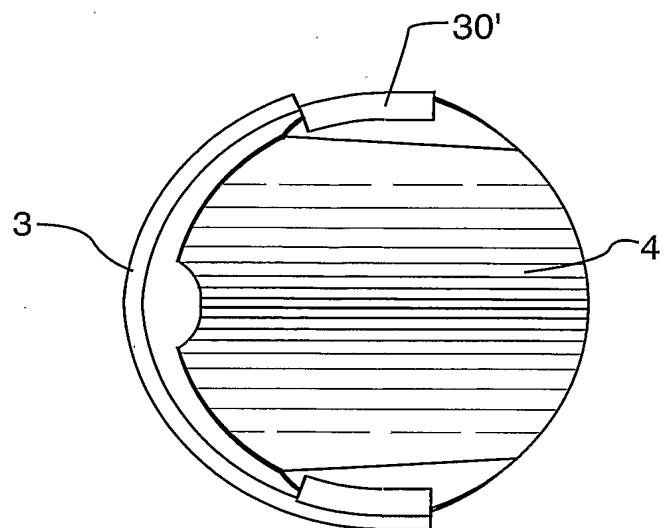


FIG.29

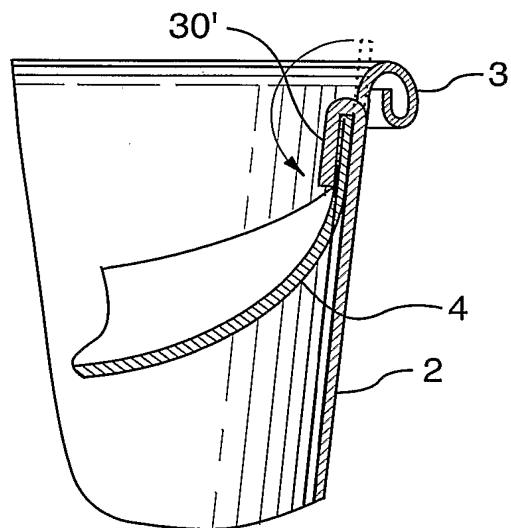


FIG.30

INTERNATIONAL SEARCH REPORT

International Application No

PCT/CA 03/01142

A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 B65D3/20 B65D3/28 B65D3/30

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
 IPC 7 B65D A47G

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

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C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	GB 2 380 397 A (MCDONALD S RESTAURANTS LTD) 9 April 2003 (2003-04-09) page 11, line 28 - line 36 page 18, line 3 - page 19, line 9; figures 1-8,17-20 -----	6-8,10, 12
E	DE 102 02 705 A (PARK KI BUM) 7 August 2003 (2003-08-07) paragraph '0008!; figures 4,5 -----	1,2
X	KR 2002 054 070 A (PARK KI BUM) 6 July 2002 (2002-07-06) figures -----	1,2
Y		4,9,11
A	WO 01/94215 A (SARSON GEORGE E) 13 December 2001 (2001-12-13) page 14, line 27 - line 30; figures 4a,5a,7a,12 -----	1,6,12
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Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

& document member of the same patent family

Date of the actual completion of the international search

2 June 2004

Date of mailing of the international search report

22.06.2004

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Berrington, N

INTERNATIONAL SEARCH REPORT

International Application No

PCT/CA 03/01142

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	GB 2 269 811 A (WESTON JUDITH MARY ; WESTON TERENCE E (GB)) 23 February 1994 (1994-02-23) page 9, paragraph 3 – page 10, paragraph 1; figures 1-9,12a-12e -----	1
Y	GB 1 135 905 A (LEONARD MONHEIM) 11 December 1968 (1968-12-11) page 2, line 22 – line 42; figure 1 -----	4,9,11

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/CA 03/01142

Patent document cited in search report	Publication date	Patent family member(s)			Publication date
GB 2380397	A 09-04-2003	WO	03029084	A2	10-04-2003
DE 10202705	A 07-08-2003	DE	10202705	A1	07-08-2003
KR 2002054070	A 06-07-2002	NONE			
WO 0194215	A 13-12-2001	US AU WO EP	2002052286 6196101 A 0194215 A1 1317380 A1	A1	02-05-2002 17-12-2001 13-12-2001 11-06-2003
GB 2269811	A 23-02-1994	NONE			
GB 1135905	A 11-12-1968	AT CH	293265 453197	B A	27-09-1971 14-06-1968

INTERNATIONAL SEARCH REPORT

International application No.
PCT/CA 03/01142

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:

3. Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.

2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.

3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:

4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- The additional search fees were accompanied by the applicant's protest.
- No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-3,5,6-8,10,12

Disposable cup having a lid and body portion whereby either the lid or the body is provided with laterally extending flaps.

2. claims: 4,9,11

Disposable cup having a lid and body portion whereby the lid is provided with reinforcement pieces.
